After Sales Technical Documentation

NAM PROGRAMMING INSTRUCTIONS

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AMENDMENT RECORD SHEET

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Keypad NAM Programming Mode

NHA–2 phones are equipped with two NAMs. The NAM parameters have to be programmed by the dealer before the phone can be used. This can be done in two ways, either by using the keypad or by using a special PCLocals software. If you are using the PCLocals software, refer to the respective user manual for further details.

Activating the NAM Programming Mode

The NAM programming from the keypad is done by using a special NAM programming menu.

The NAM programming mode is turned on by entering special password code and *OK* (or *STO*) key, e.g.

, 3, 0, 0, 1, #, 1, 2, 3, 4, 5, OK or

, 3, 0, 0, 1, #, 1, 2, 3, 4, 5, STO

This password is supplied to each dealer separately. If the phone is equipped with the unchurnable software feature, this password has to be preprogrammed to the dealer (or operator) specific password, otherwise the factory preprogrammed password can be used. Changing the password requires a special PCLocals software. The password is programmed by the PC to the EEPROM. It cannot be changed from the keypad.

If the password entered was correct the NAM programming mode is switched on.

Programming the NAM

When the NAM programming mode is on, the short code memory is replaced with six special locations for the NAM parameters:

Location:	Contents:
1	Special parameters
2	Own number + name for NAM1
3	Parameters for NAM1
4	Own number + name for NAM2
5	Parameters for NAM2
6	Purchasing date

Locations 2 and 4; Own Number and Name (NAM1 & NAM2)

In the NAM programming mode these locations can be used as any other short code memory locations. E.g. the number 813 448 4111 for NAM1 would be programmed as:

8, 1, 3, 4, 4, 8, 4, 1, 1, 1, OK, 2, OK or

8, 1, 3, 4, 4, 8, 4, 1, 1, 1, STO, 2, STO

Note that the own number is entered as a normal phone number, i.e. in AMPS as MIN2+MIN1. The own number will be displayed to the user exactly in the same format as stored to the memory location in startup. The length of the own number is10 digits.

MENU NAM selection does not affect these locations, i.e. location 2 is used for NAM1 although NAM2 has been selected as the current NAM. Also you can program the NAMs in any order e.g. the NAM2 can be programmed before NAM1. The MENU NAM selection shows only one choice if only one NAM (whether NAM1 or NAM2) has been programmed. Empty choices (a NAM with an empty own number) are not shown.

The recall function also works as normally, e.g. the above own number programming could be checked by recalling the location 2 in the nam programming mode:

2, ↓ or

RCL, 2

You can also edit the contents of the location using the *CLR* key and restore the changed contents back by the *STO* key.

The name part of the NAM locations 2 & 4 can be used to give the name of the network operator, dealer etc. If the name part is programmed, it will be shown on the display each time the phone is switched on as the so called wake–up message. If the name part is not programmed own number is used in the message. The name part is available only for the locations 2 and 4. The name part is given in the ALPHA mode after the own number:

8, 1, 3, 4, 4, 8, 4, 1, 1, 1, ABC, N, A, M, E, OK, 2, OK or

8, 1, 3, 4, 4, 8, 4, 1, 1, 1, ALPHA, N, A, M, E, STO, 2, STO

The new programmed NAM info is in effect after you have turned the power off and back on and selected the just programmed NAM from the menu. If the NAM info is erroneous, the NAM ERROR note will appear and the phone will not operate. Check that all parameters are given and do not exceed their range. At least one of the NAMs and the special parameters have to be correct.

The NAM programming mode is cleared by turning the power off. The date of the NAM programming is not saved.

Normal short code memory operations for other locations (above 6) are not available during the NAM programming mode.

Locations 3 and 5; AMPS Parameters (NAM1 & NAM2)

For each NAM, two locations have to be programmed, one for the own number told above and one for the parameters (3 for NAM1 and 5 for NAM2). The contents of the parameter locations are of the form:

SIDH*EX*LUM*IPCH*ACCOLC*GIM

Where:

*****	= separator: press * on keypad.
SIDH	= Home System ID: 5 digits, range 0 – 32767.
EX	= Access method: 1 = area code used (typically 1) 0 = area code not used
LUM	= Local Use Mark: 1 or 0 (typically 1).
IPCH	= Initial Paging Channel: 3–4 digits (typically 334 for B and 333 for A system), range 0 – 2047.
ACCOLC	= Access Overload Class: 2 digits (typically 0 + last digit of MIN), range 0 – 15.
GIM	= Group ID Mark: 2 digits, range 0 – 15.

Note that all the parameters are stored to a single location and the upper part (first 16 digits) is only visible while the *END* or the *RCL* key is pressed. An example grouping of these fields is shown below:

Display:	Meaning:	Obtained by:
		upper part:
12	***S***	press *END* or *RCL* key
345*1*1	***IDH*EX*LUM****	lower part:
333*0*01	***IPCH*ACCOLC*GIM***	normal display

Location 1; Common Parameters

A common NAM location 1 is used to store some special parameters. All these parameters have a default factory setting and programming of these parameters is not mandatory. The format of these parameters are:

EMER#LAN*LC

Where:

#,* = separator: use # –key for emergency numbers,
use * –key for others entries.

EMER = Emergency numbers, default 911,*911. One or more emergency numbers can be defined. The numbers should be separated by the # character.

EMER1#EMER2#EMER3#EMER4#EMER5

The maximum number of emergency numbers depends on the length of the numbers. The total size of the special parameters is limited by the display size (32 characters). These numbers can be called even if the phone is locked.

LAN = Language: 1 digit. The default value is 0.

0 = English
1 = French
2 = Spanish
3 = Portuguese

LC = Lock Code: 4 digits, range 0 – 9999.
Default: 1234.

Location 6; Purchasing Date

Location 6 in NAM programming mode is reserved for the purchasing date. Purchasing date is used for warranty purposes. This location should be programmed when the phone is delivered to the customer.

The content of the locations is:

MMYY,

where: ***MM*** = month
YY = year (e.g. 0895 is August 1995)

This location can be programmed only once. After it is programmed, it can be read but not changed any more.

Table of NAM Programming Commands

Own number (NAM1):

MENU keypad:	STO/RCL keypad:	Function:
password,*OK*	password,*STO*	Enter NAM programming mode.
number,*OK,2,OK*	number,*STO,2,STO*	Store only own number for NAM1
number,*ABC*, name,*OK,2,OK*	number,*ALPHA*, name,*STO,2,STO*	Store both name and number for NAM1.
sidh,*,ex,*,lum,*, ipch,*,accolc,*, gim,*OK,3,OK*	sidh,*,ex,*,lum,*, ipch,*,accolc,*, gim,*STO,3,STO*	Store parameters for NAM1.

And optional number (NAM2):

MENU keypad:	STO/RCL keypad:	Function:
number,*ABC*, name,*OK,4,OK*	number,*ALPHA*, name,*STO,4,STO*	Store both name and number for NAM2.
sidh,*,ex,*,lum,*, ipch,*,accolc,*, gim,*OK,5,OK*	sidh,*,ex,*,lum,*, ipch,*,accolc,*, gim,*STO,5,STO*	Store parameters for NAM2.

Checking of the both NAM's:

MENU keypad:	STO/RCL keypad:	Function:
2,↓	*2,*↓	Check NAM1 number
ABC	*ALPHA*	and name
hold *CLR*	hold *CLR*	Clear display
3,↓	*3,*↓	Check NAM1 parameters
END	*RCL*	Check upper part of NAM1 parameters.
hold *CLR*	hold *CLR*	Clear display
4,↓	*4,*↓	Check NAM2 number
hold *CLR*	hold *CLR*	Clear display
5,↓	*5,*↓	Check NAM2 parameters.
hold *CLR*	hold *CLR*	Clear display

Lock code:

MENU keypad:	STO/RCL keypad:	Function:
1,↓	*1,*↓	Check special parameters

CLR,CLR,CLR,CLR, 2,5,8,1,OK,1,OK	*CLR,CLR,CLR,CLR, 2,5,8,1,STO,1,STO*	Change lock code to 2581.
0,8,9,5,OK,6,OK	*0,8,9,5,STO,6,STO*	Set purchasing date to August 1995
PWR	*PWR*	Exit NAM programming mode by Switching power off.
PWR	*PWR*	Switch power on, check operation of NAMs programmed:
MENU,NAM,OK	*MENU,NAM,STO*	Select NAM1, check operation.
MENU,NAM,↓, OK	*MENU,NAM,↓, STO*	Select NAM2, check operation.

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